

PATENT**FRENCH PETROLEUM INSTITUTE****PROCESS FOR OBTAINING A FEEDSTOCK THAT CAN BE USED IN AN
ETHERIFICATION UNIT**

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ABSTRACT

Process for obtaining a hydrocarbon fraction that can be used as a feedstock of an etherification unit and that contains a small amount of diene compounds, nitrogen-containing compounds and sulfur-containing compounds, starting from an initial hydrocarbon feedstock that comprises a mixture of olefins, dienes, and nitriles as well as sulfur-containing compounds, whereby said process comprises at least the following successive stages:

- a) a selective hydrogenation of said initial hydrocarbon feedstock in the presence of a catalyst of group VIII of the periodic table,
- b) a fractionation by distillation of the effluents that are obtained from stage a) under conditions that make it possible to obtain at least two fractions including
 - said hydrocarbon fraction and that comprises a small amount of diene compounds, nitrogen-containing compounds and sulfur-containing

compounds, and

- a heavy fraction that contains heavy hydrocarbons and the majority of the nitrogen-containing compounds and sulfur-containing compounds obtained from the hydrogenation of stage a).